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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/035,817	10/25/2001	Edward Scheidt	STSPT34	1778
49691	7590	10/17/2005	EXAMINER	
IP STRATEGIES 12 1/2 WALL STREET SUITE I ASHEVILLE, NC 28801			ZIA, SYED	
			ART UNIT	PAPER NUMBER
			2131	

DATE MAILED: 10/17/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)	
	10/035,817	SCHEIDT ET AL.	
	Examiner	Art Unit	
	Syed Zia	2131	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 28 June 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-38 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-38 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|---|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Amendment

This office action is in response to amendment filed on June 28, 2005. Original application contained Claims 1-37. Applicant currently cancelled Claim 1. The amendment filed have been entered and made of record. Presently pending claims are 1-38.

Response to Arguments

1. Applicant's arguments with respect to claims 1-38 have been considered but are moot in view of the new ground(s) of rejection.

Claim Rejections - 35 USC § 102

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

1. Claims 1-37 are rejected under 35 U.S.C. 102(e) as being anticipated by Glass (U. S. Patent 6,553,494).
2. Regarding Claim 1, Glass teaches and describes an electronic signature device comprising a processor, a memory, a user input device including a first signature input device,

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and a device interface, all commemeratively connected by at least one bus, a method of personalizing the electronic signature device to a user (Fig.1-5), comprising:

receiving a digitized written user signature of the user via the first signature input device, generating a prime parameter, a sub-prime parameter, and a base parameter; generating a signing private key; generating a signing public key based on said prime, sub-prime, and base parameters; generating a user public key based on said signing private key and said prime and base parameters; generating a biometric electronic template based on said digitized written user signature; and storing said prime, sub-prime, and base parameters, said signing private and public keys, and said biometric electronic template in the memory (col.8 line 1 to col.9 line 52).

3. Regarding Claim 26, Glass teaches and describes an electronic signature device comprising a processor, a memory having a biometric electronic template, a prime parameter, a sub-prime parameter, and a base parameter, user public data comprising a user public key, and a user private key stored therein, a user interface comprising a signature input device, a device interface adapted to interface a computer, and at least one bus operably connected to the processor, the memory, the user interface, and the device interface, a method of originating an electronically signed transaction (Fig.1-5), said method comprising:

verifying whether a user is permitted to originate the electronically signed transaction with the electronic signature device, comprising: receiving a digitized written originator signature via the user interface, and comparing said digitized mitten originator signature against the biometric electronic template to produce a first verification result; receiving a transaction package through one of the user interface and the device interface; combining said transaction package and one of

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said digitized originator signature and a digitized user signature extracted from the biometric electronic template to produce an originator signature block; generating an ephemeral private key based on the prime, sub-prime, and base parameters; generating an ephemeral public key based on said ephemeral private key and the prime and base parameters; generating a shared encryption key based on said ephemeral public key, the user public key, and the prime parameter; encrypting said originator signature block with said shared encryption key to produce an encrypted signature block; combining said encrypted signature block, said ephemeral private key, the prime parameter, and at least a portion of the user public data to produce an electronically signed transaction; and if the user is verified, providing said electronically signed transaction via the device interface (col.8 line 1 to col.9 line 52).

4. Claims 2-25, and 27-37 are rejected applied as above rejecting claims 1, and 26.

Furthermore, Glass teaches and describes, wherein:

As per claims 2-4, and 27, said prime, sub-prime, and base parameters are based on Diffie-Hellman parameters, and said prime, sub-prime, and base parameters are generated based on a seed value, and the seed value is one of a random value and a pseudorandom number (col.1 line 60 to col.2 line 20).

As per Claim 5, the seed value is received from the user via the user interface (col.2 line 21 to line 30).

As per Claim 6 the user interface further comprises a password input device, and said method further comprises: receiving a user password via the password input device; generating a

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password encryption key based on the user password; encrypting a known value with the password encryption key to produce an encrypted output; and storing the encrypted known value in the memory (col.4 line 26 to line 56).

As per Claim 7, and 29, said known value is said biometrics electronic template (col.5 line 12 to line 30, and col.9 line 10 to line 15).

As per Claims 8-17, and 30-31, receiving said digitized user signature is repeated at least once. receiving said digitized user signature and generating said biometrics electronic template are repeated at least once, said biometric electronic template is generated based on a mathematic transformation of said digitized written user signature, the mathematical transformation is a Fourier transformation, the electronic signature device is communicatively connected to a certificate authority via the device interface, and said method further comprises: sending a certificate request to the certificate authority; receiving a certificate package from the certificate authority, and storing said certificate package in the memory, said certificate request comprises said user public key, said certificate request further comprises at least one of said prime, sub-prime, and base parameters, said certificate request comprises said user public key and said prime parameter, said certificate package comprises a digital certificate, and said certificate package comprises a digital certificate and a root value (col.3line 29 to line 67).

As per Claims 18-23, the device interface is a card interface, the electronic signature device further comprises a power source that is at least one of a battery and the computer interface, the first signature input device is integral with the electronic signature device, the first signature input device is connected to the at least one bus through the device interface, and at least a portion of said user interface is integral with the electronic signature device, and at least a

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portion of said user interface is connected to the at least one bus through the device interface (Fig.3-5, and col.6 line 47 to col.7 line 12).

As per claims 24-25, said user public key is one of a random number and a pseudorandom number, and said user public key is smaller than said sub-prime parameter (col.3 line 51 to line 64).

As per Claim 28, the user interface further comprises a password input device, the memory has further stored therein an encrypted known value, and verifying whether the user is permitted to originate the electronically signed transaction with the electronic signature device further comprises receiving a user password via the password input device; generating a password encryption key based on the user password; decrypting the encrypted known value with said password encryption key to produce a second verification result (col.4 line 26 to line 56).

As per Claim 32, comparing said digitized written originator signature against the biometric electronic template comprises: generating a temporary template based on said digitized written originator signature, and comparing said temporary template to the biometric electronic template (col.6 line 28 to line 60, and col.9 line 16 to line 36).

As per Claim 35, said digitized mitten originator signature against the biometric electronic template comprises: generating a temporary signature based on the biometric electronic template, and comparing said temporary signature to said digitized written originator signature (col.6 line 28 to line 60, and col.9 line 16 to line 36).

As per Claim 33-34, and 36-38, said temporary template is generated based on a mathematic transformation of said digitized written originator signature, the mathematical

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transformation is a Fourier transformation, and the at least a portion of the user public data comprises the user public key col.3 line 29 to line 67).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Syed Zia whose telephone number is 571-272-3798. The examiner can normally be reached on 9:00 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ayaz Sheikh can be reached on 571-272-3795. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

SZ

October 12, 2005

